FIG. 1

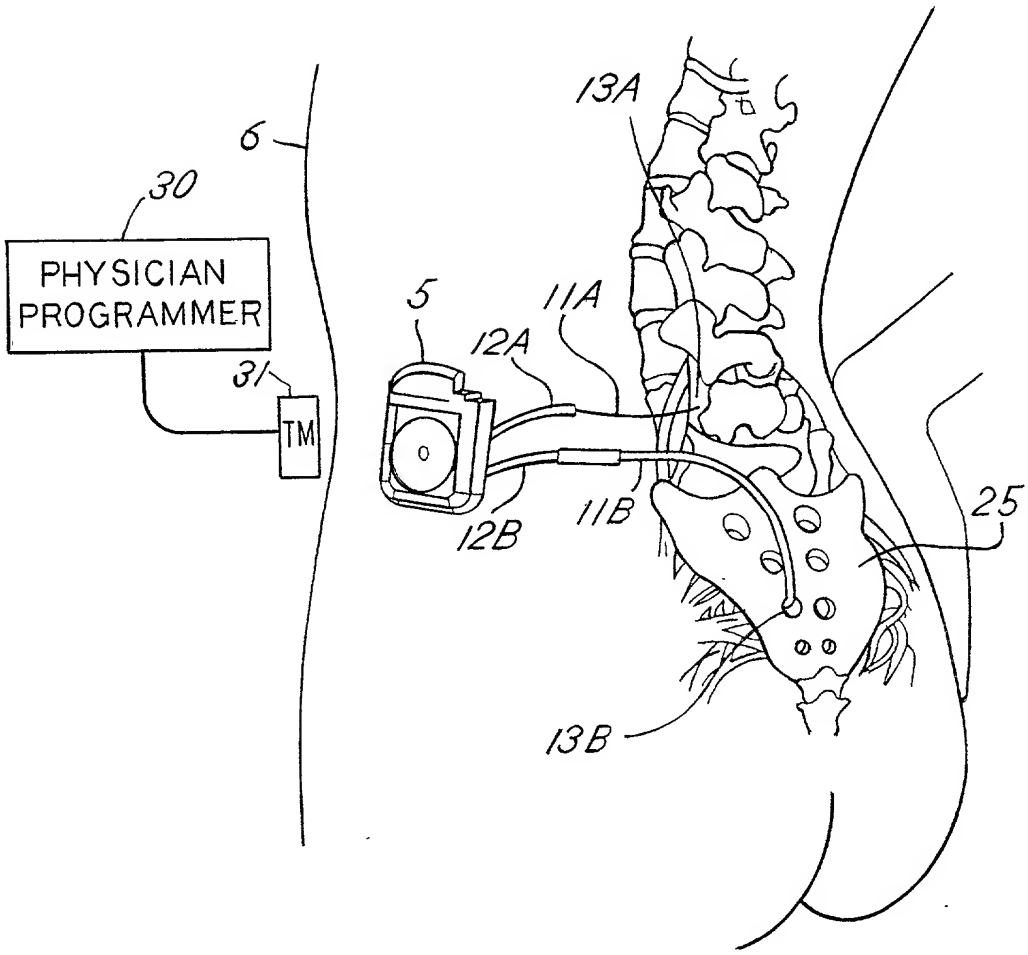

FIG. 2

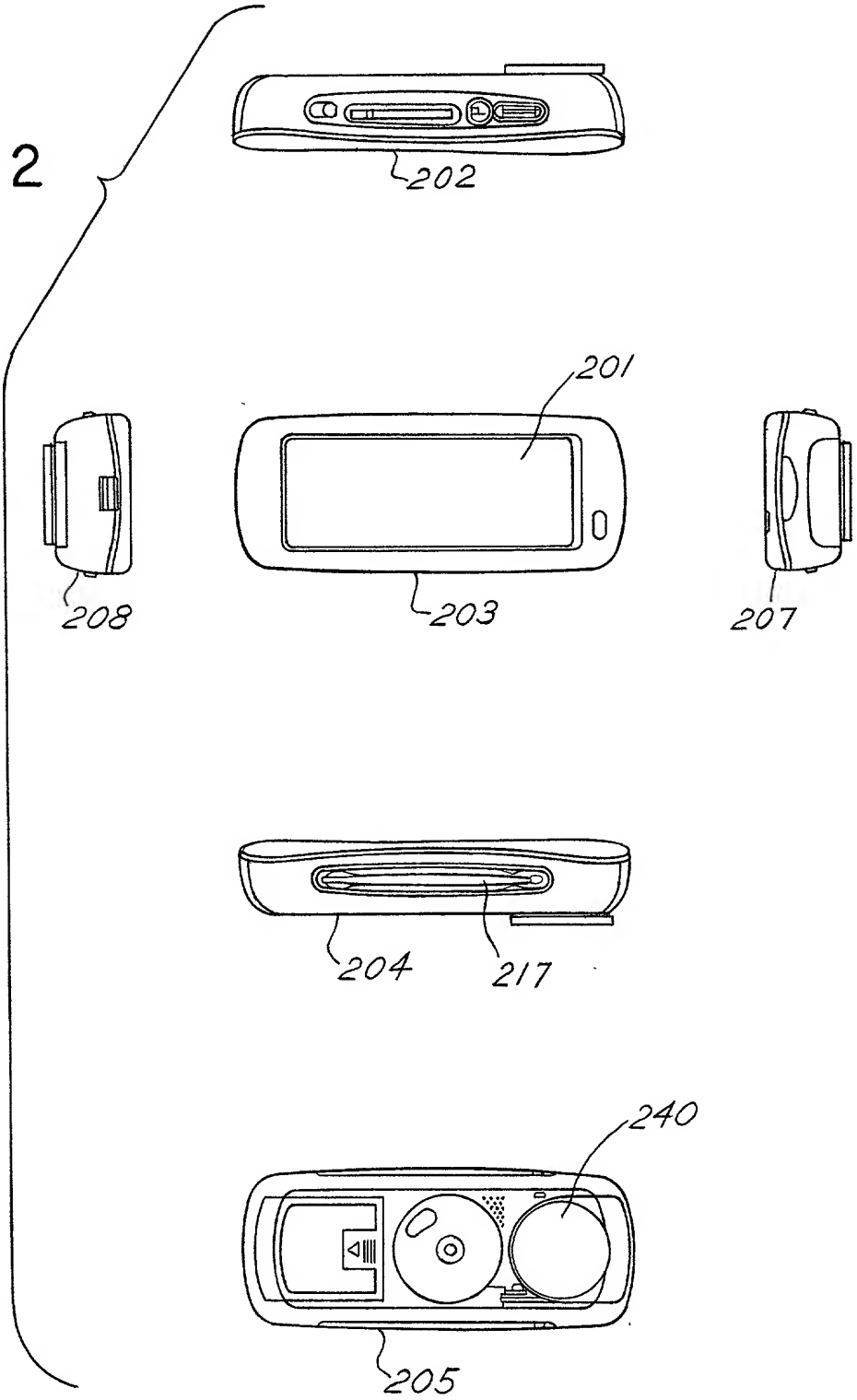

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FIG.3

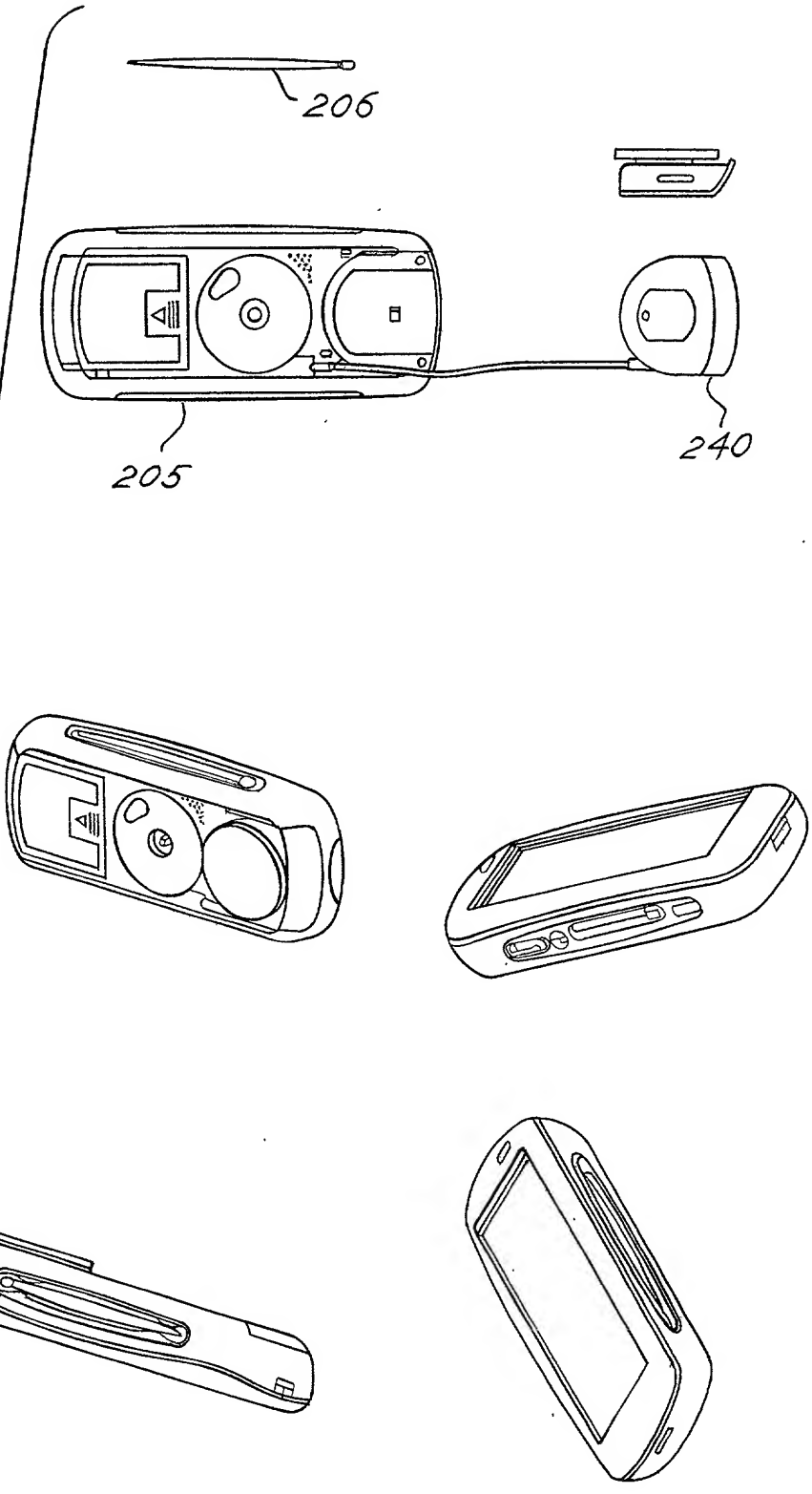

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FIG. 4

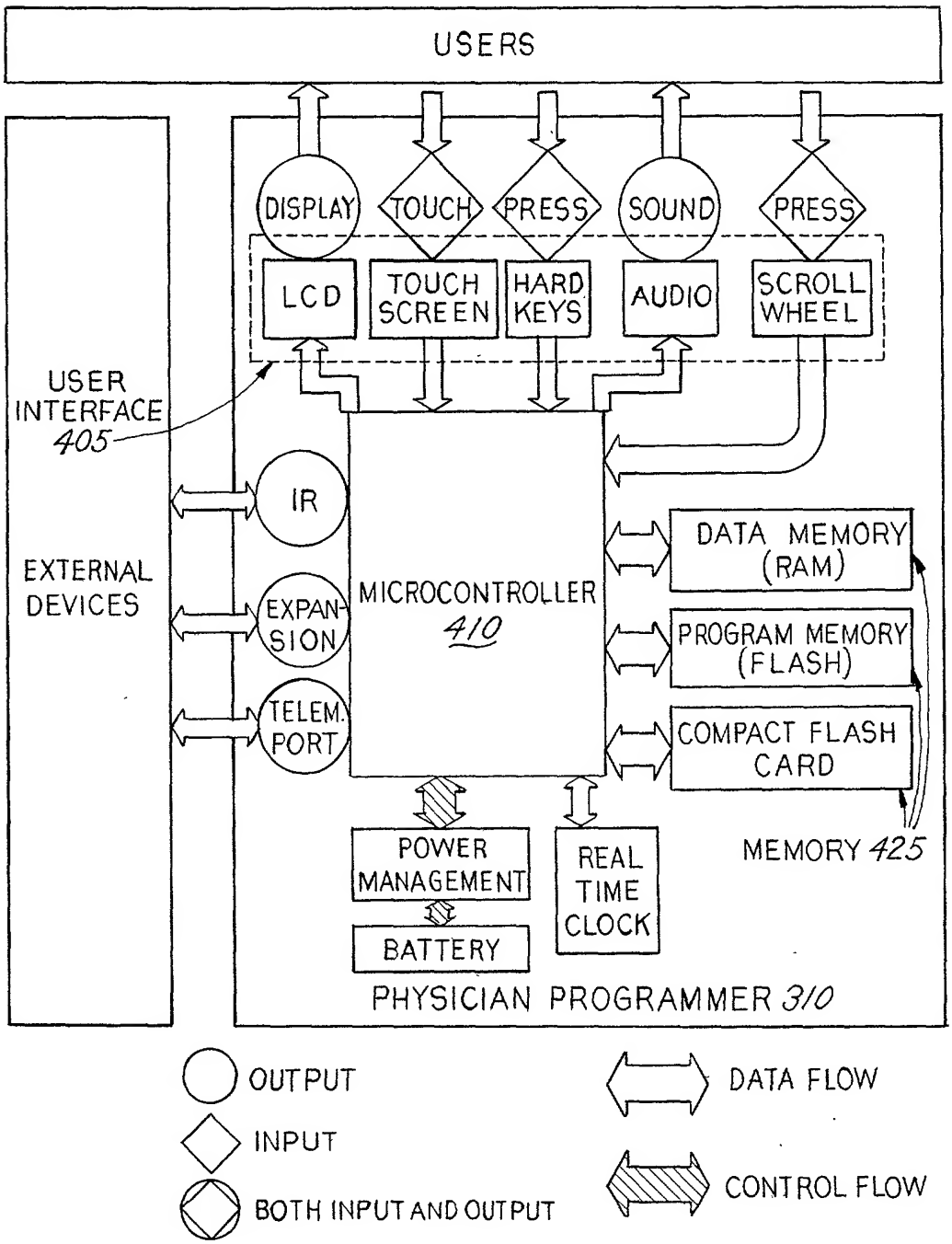
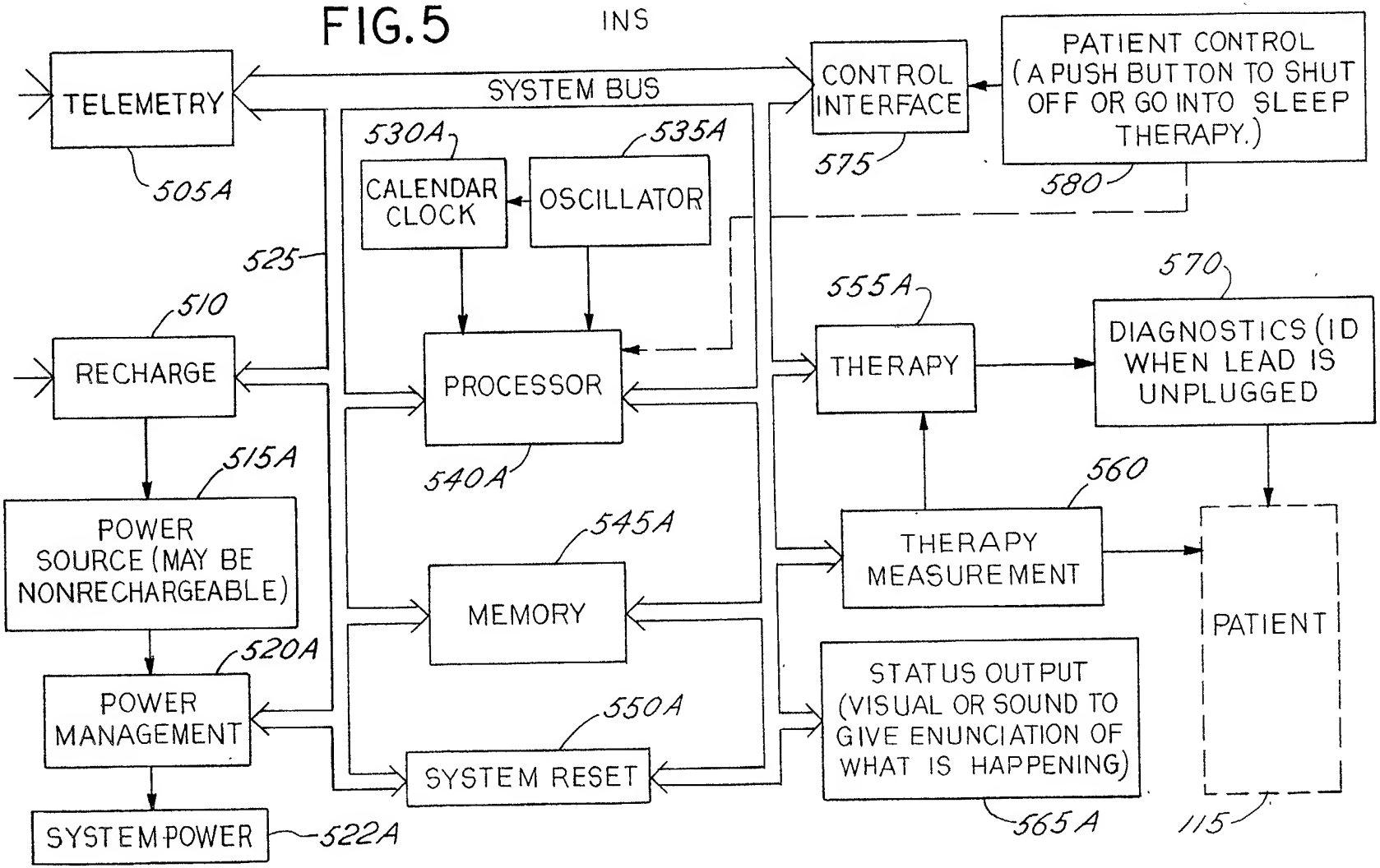

USERS
DISPLAY
TOUCH
PRESS
SOUND
PRESS
LCD
TOUCH SCREEN
HARD KEYS
AUDIO
SCROLL WHEEL
USER INTERFACE 405
IR
EXTERNAL DEVICES
EXPAN-SION
TELEM. PORT
MICROCONTROLLER 410
DATA MEMORY (RAM)
PROGRAM MEMORY (FLASH)
COMPACT FLASH CARD
MEMORY 425
POWER MANAGEMENT
BATTERY
REAL TIME CLOCK
PHYSICIAN PROGRAMMER 310
OUTPUT
INPUT
BOTH INPUT AND OUTPUT
DATA FLOW
CONTROL FLOW

FIG.5



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Serial No. 10/099,786
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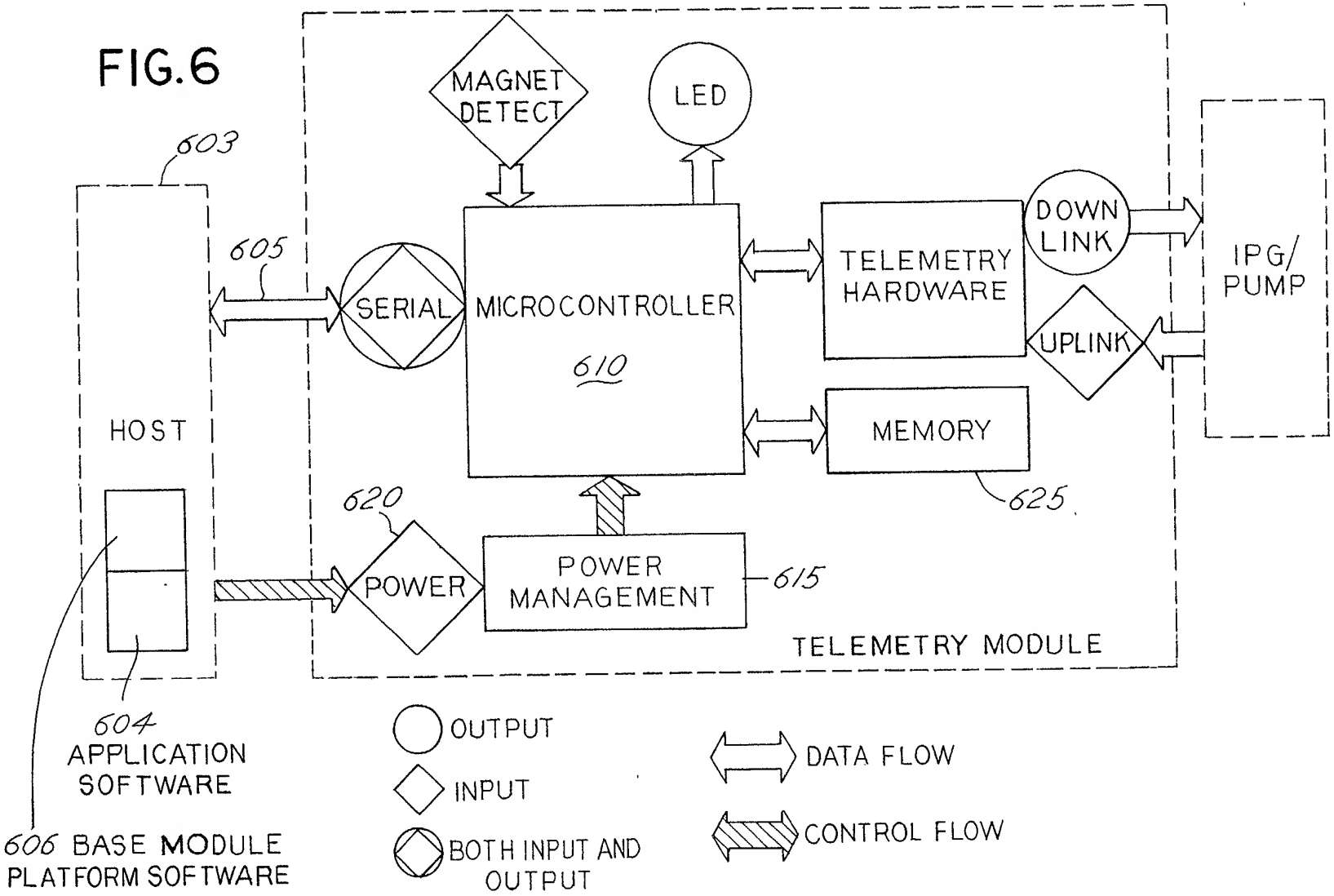
FIG.6



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Serial No. 10/099,786
Inventors: Goetz et al.
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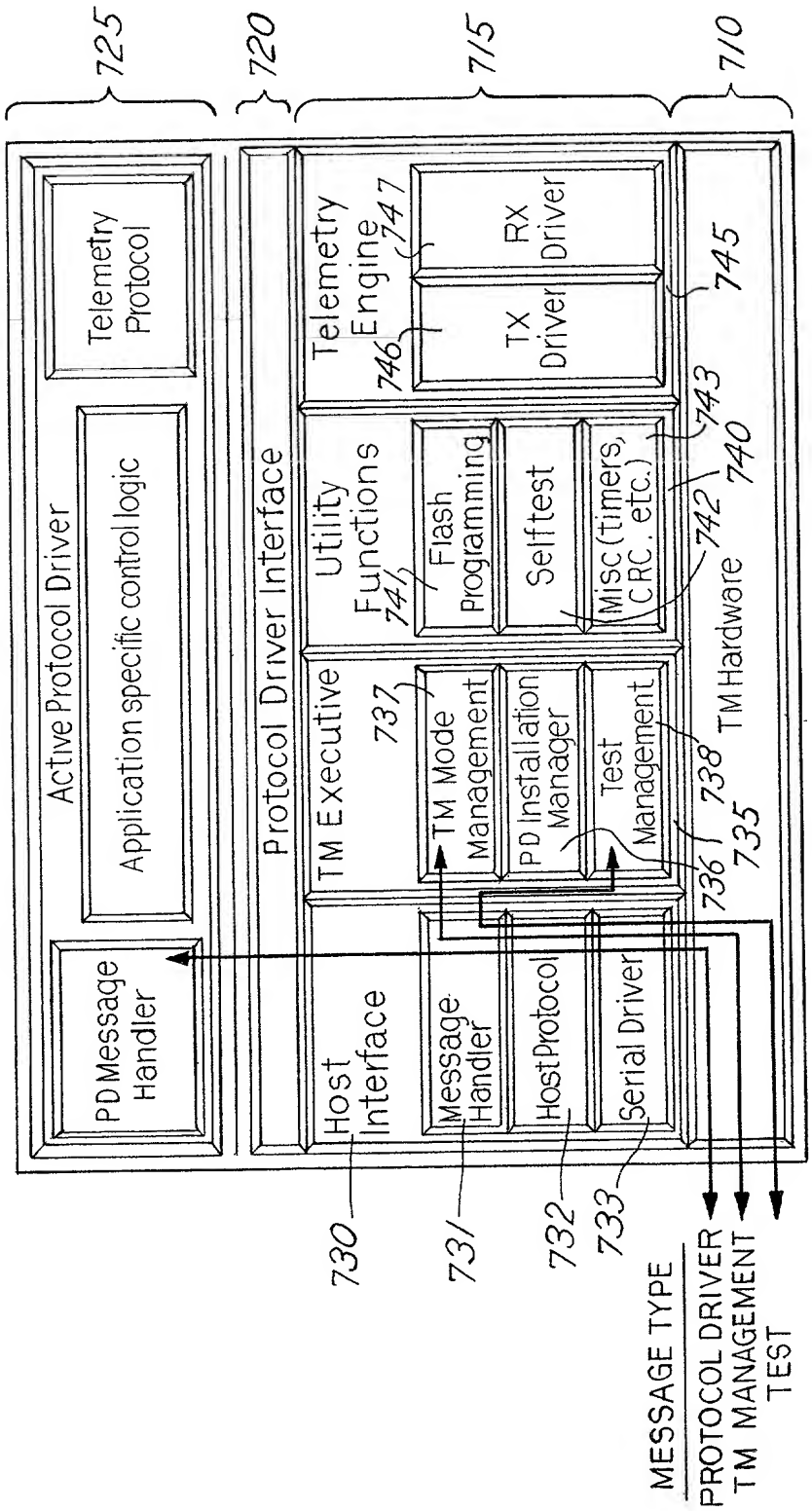
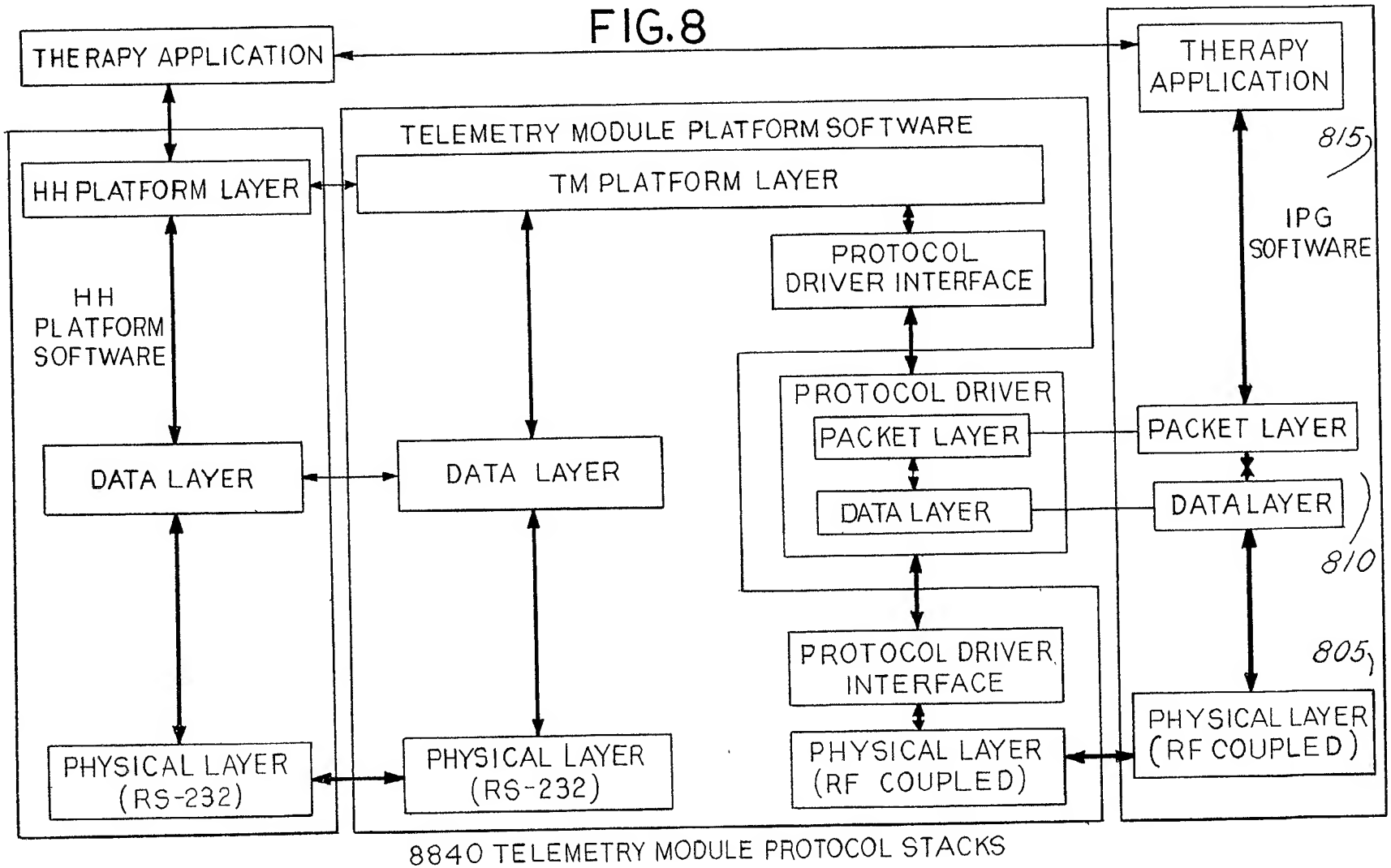
FIG. 7


725
720
715
710
Active Protocol Driver
PD Message Handler
Application specific control logic
Telemetry Protocol
Protocol Driver Interface
Host Interface
Message Handler
Host Protocol
Serial Driver
TM Executive
737
TM Mode Management
PD Installation Manager
Test Management
Utility Functions
741
Flash Programming
Selftest
Misc (timers, CRC, etc.)
Telemetry Engine
747
TX Driver
RX Driver
746
743
740
742
745
738
735
736
TM Hardware
730
731
732
733
MESSAGE TYPE
PROTOCOL DRIVER
TM MANAGEMENT
TEST

20090° 98266007

FIG.8



8840 TELEMETRY MODULE PROTOCOL STACKS

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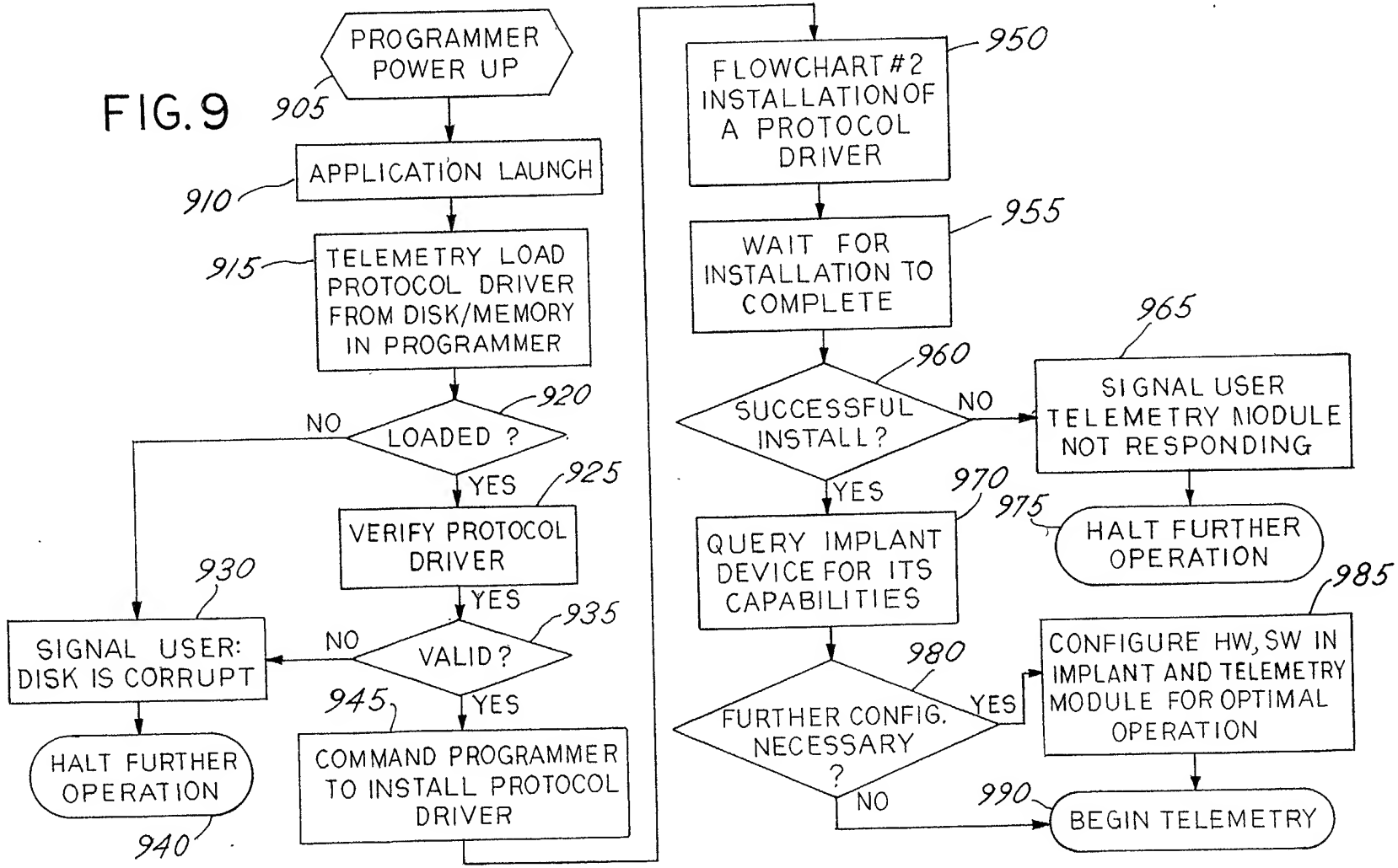
FIG. 9



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Serial No. 10/099,786
Inventors: Goetz et al.
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FIG.10

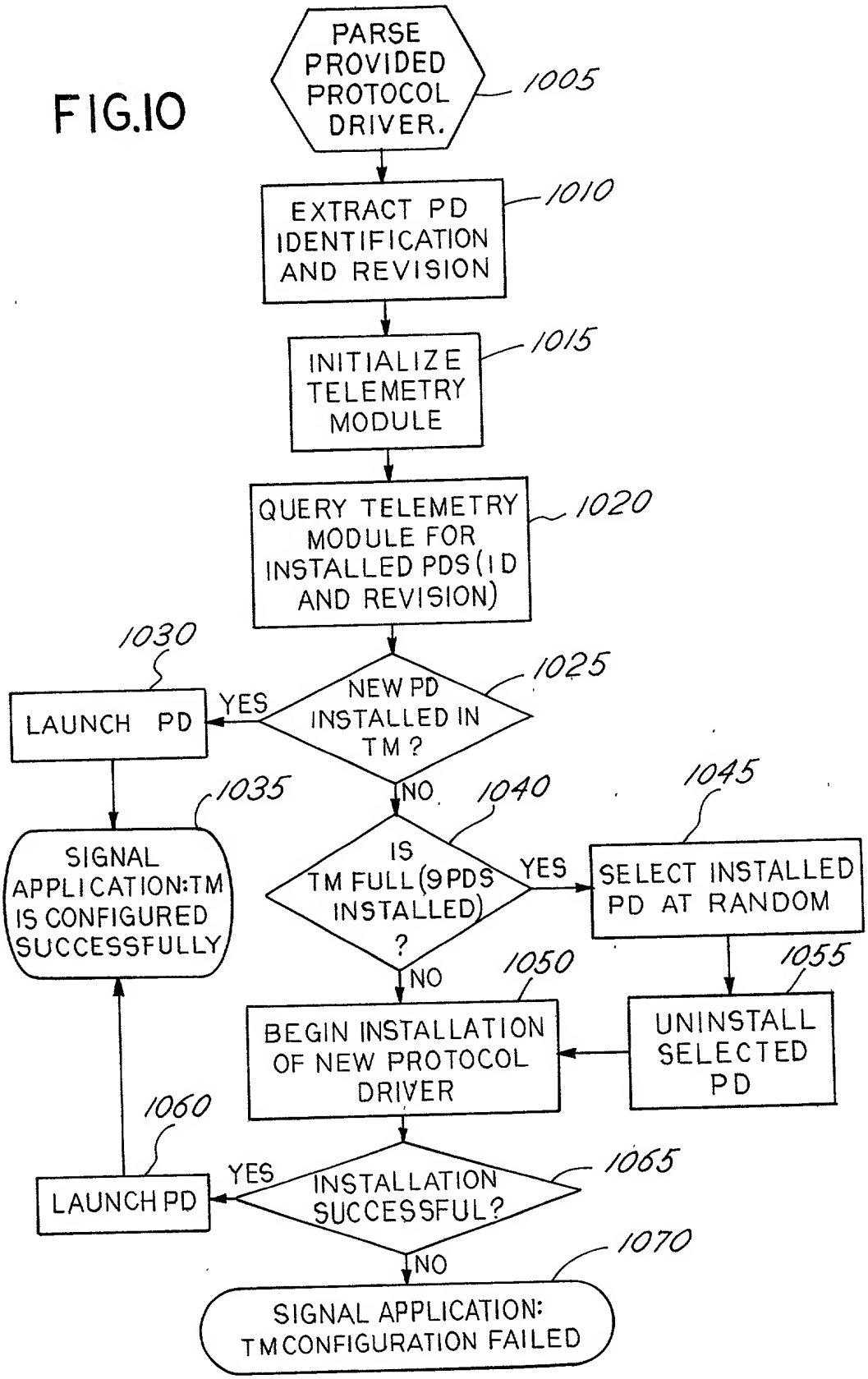

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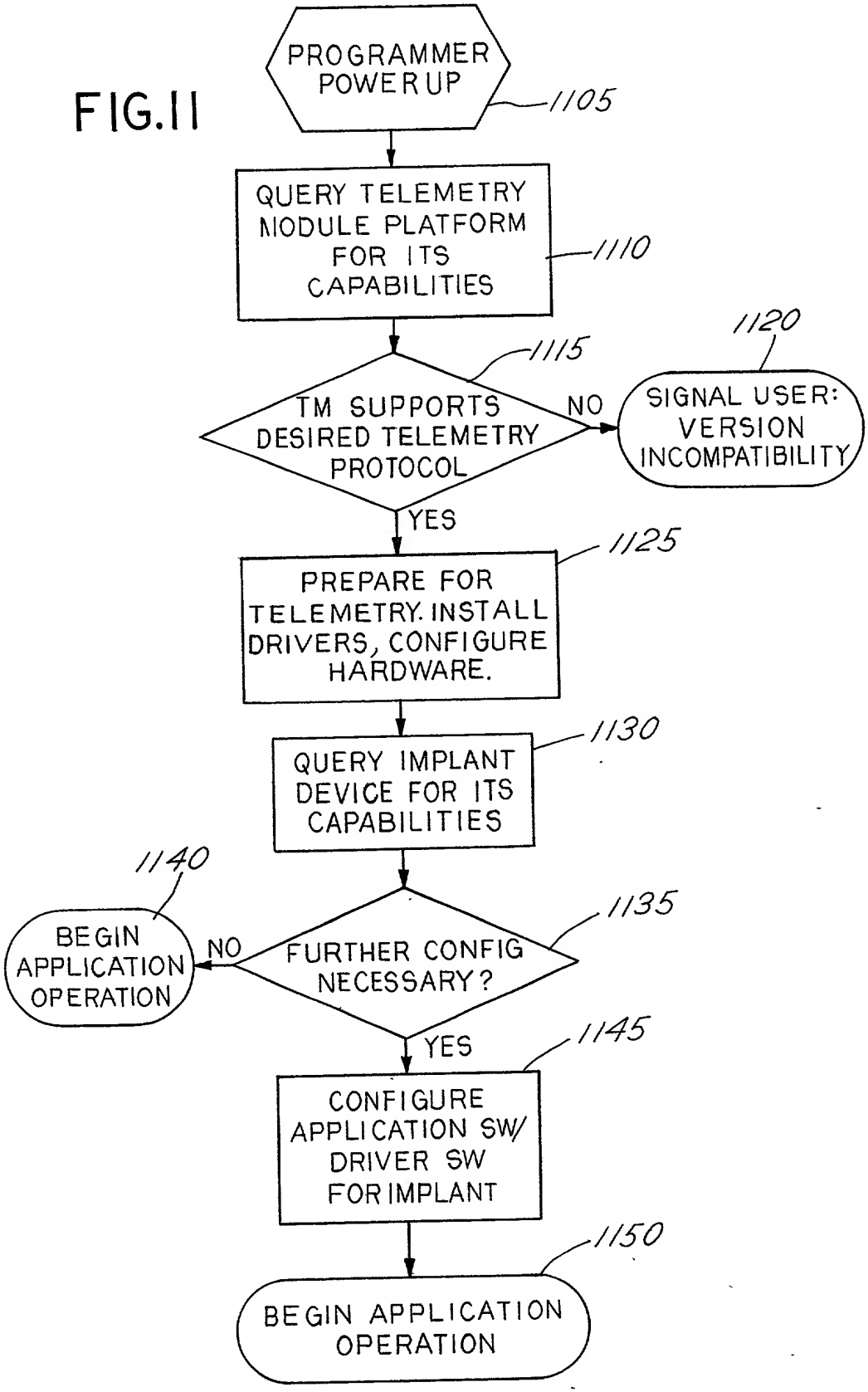
FIG.11



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